

PATENT ABSTRACTS OF JAPAN

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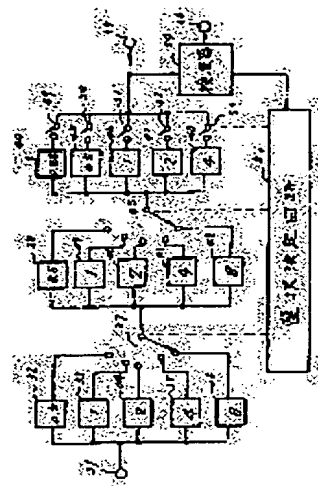
(54) MULTI-STAGE AMPLIFIER

(57)Abstract:

PURPOSE: To provide less distortion and noise in an output signal even at any of weak/medium/strong inputs, a desired gain and a broad dynamic range by connecting plural amplifier groups comprising plural amplifiers with different gains in cascade and connecting a control means selecting at least each one of said amplifier for said amplifier groups each.

CONSTITUTION: Inputs of amplifiers 32~36 of the first stage are connected in parallel with an input terminal 31, outputs are connected to a selector 37 so that one output of any of the amplifiers 32~36 is selected and inputted to the amplifier group of the next stage. Thus, plural amplifier groups are connected in cascade and selectors 49~53 are connected to each output of amplifiers 44~48 of the final stage. A selection deciding circuit

57 decides the direction of increase/ decrease of the gain depending on the amplitude of the detected output from a detector 54 and decides a choice of the selectors 37, 43, 49~53 according to the predetermined procedure. Thus, the desired gain and the share of gain are decided.



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